

WHAT IS CLAIMED IS:

1. A method for identifying a compound that modulates the enzymatic activity of a polypeptide, comprising:
  - (a) incubating the compound with the polypeptide, wherein the polypeptide is in pure form, in a membrane preparation or in a whole cell;
  - (b) measuring the enzymatic activity of the polypeptide; and
  - (c) comparing the enzymatic activity in (b) to that of the polypeptide incubated without the compound, thereby determining whether said compound modulates the enzymatic activity of the polypeptide, wherein the polypeptide comprises:
    - (i) the amino acid sequence SEQ ID NO:1;
    - (ii) an amino acid sequence encoded by a nucleic acid molecule that hybridizes under highly stringent conditions to the complement of a nucleic acid molecule comprising the nucleotide sequence of SEQ ID NO:2;
    - (iii) amino acid residues 1-18, 19-150, 151-175, 176-264, 265-500, 558-790 or 791-802 of SEQ ID NO:1;
    - (iv) the amino acid sequence of SEQ ID NO:3;
    - (v) an amino acid sequence encoded by a nucleic acid molecule that hybridizes under highly stringent conditions to the complement of a nucleic acid molecule comprising the nucleotide sequence of SEQ ID NO:4; or

(vi) amino acid residues 1-18, 19-143, 143-166, 166-264, 265-500 or 558-790 of SEQ ID NO:3.

2. The method of Claim 1, wherein the polypeptide is a fusion polypeptide.

3. The method of Claim 1, wherein the compound stimulates polypeptide enzymatic activity.

4. The method of Claim 1, wherein the compound inhibits polypeptide enzymatic activity.

5. The method of Claim 1, wherein the polypeptide comprises the amino acid sequence SEQ ID NO:1.

6. The method of Claim 1, wherein the polypeptide comprises an amino acid sequence encoded by a nucleic acid molecule that hybridizes under highly stringent conditions to the complement of a nucleic acid molecule comprising the nucleotide sequence of SEQ ID NO:2.

7. The method of Claim 1, wherein the polypeptide comprises amino acid residues 1-18, 19-150, 151-175, 176-264, 265-500, 558-790 or 791-802 of SEQ ID NO:1.

8. The method of Claim 1, wherein the polypeptide comprises the amino acid sequence of SEQ ID NO:3.

9. The method of Claim 1, wherein the polypeptide comprises an amino acid sequence encoded by a nucleic acid molecule that hybridizes under highly stringent conditions to

the complement of a nucleic acid molecule comprising the nucleotide sequence of SEQ ID NO:4.

10. The method of Claim 1, wherein the polypeptide comprises amino acid residues 1-18, 19-143, 143-166, 166-264, 265-500 or 558-790 of SEQ ID NO:3.